

GF3 Series Gear Motor (Right Angle Shaft Type)

GF3 100W

Small AC Gear Motor

GF3 Single-phase/Three-phase 100W GF3S [Concentric Hollow Shaft] / GF3F [Concentric Solid Shaft]

Motor Parameters

Motor specifications	Power (W)	Insulation grade	Voltage (V)	Frequency (Hz)	Rated current (A)	Rated operating speed (rpm)	Capacitance (μF)
Single-phase	100	F	220	50	1.1	1400	10
			110	50	2.2	1400	10
Three-phase	100	F	380	50	0.4	1300	-
			220	50	0.6	1300	-

Torque Table of Gear Motor

Motor power	Shaft diameter	Reduction ratio	Operating speed of output shaft (rpm)	Allowable torque of output shaft		Allowable O.H.L. of output shaft		Allowable axial load of output shaft		Outline Dimension	
			50Hz	N.m	Kgf.m	N	Kgf	N	Kgf	Gear motor with brake	
										GF3S	GF3F
Single-phase Three-phase 100W	20 (18)	1/ 10	150	5.2	0.53	1180	120	294	30	Figure GF3-1	Figure GF3-4
		1/ 15	100	7.7	0.79	1320	135	333	34		
		1/ 20	75	11	1.1	1470	150	373	38		
		1/ 25	60	13	1.3	1570	160	392	40		
		1/ 30	50	16	1.6	1670	170	422	43		
		1/ 40	37.5	21	2.1	1810	185	451	46		
		1/ 50	30	25	2.6	1860	190	471	48		
		1/ 60	25	31	3.2	1860	190	471	48		
		1/ 80	18.8	39	4	2550	260	637	65		
		1/ 100	15	49	5	2550	260	637	65		
	25 (22)	1/ 10	150	5.2	0.53	1180	120	294	30	Figure GF3-2	Figure GF3-5
		1/ 15	100	7.7	0.79	1320	135	333	34		
		1/ 20	75	11	1.1	1470	150	373	38		
		1/ 25	60	13	1.3	1570	160	392	40		
		1/ 30	50	16	1.6	1670	170	422	43		
		1/ 40	37.5	21	2.1	1810	185	451	46	Figure GF3-3	Figure GF3-6
		1/ 50	30	25	2.6	1860	190	471	48		
		1/ 60	25	31	3.2	1860	190	471	48		
		1/ 80	18.8	39	4	2550	260	637	65		
		1/ 100	15	49	5	2550	260	637	65		
		1/ 120	12.5	59	6	2550	260	637	65		
		1/ 160	9.4	78	8	2550	260	637	65		
		1/ 200	7.5	98	10	2550	260	637	65		

Notes: 1. The allowable O.H.L. of the output shaft should be considered when the chain tooth, conveyor belt, and gear are used to connect the reducer shaft and the supporting machines.

2. Location of allowable O.H.L. load in the table (solid shaft: center of the output shaft; hollow shaft: at 20mm to the end surface of the output shaft).

3. The value in the bracket is the shaft diameter of GF3F concentric solid shaft.

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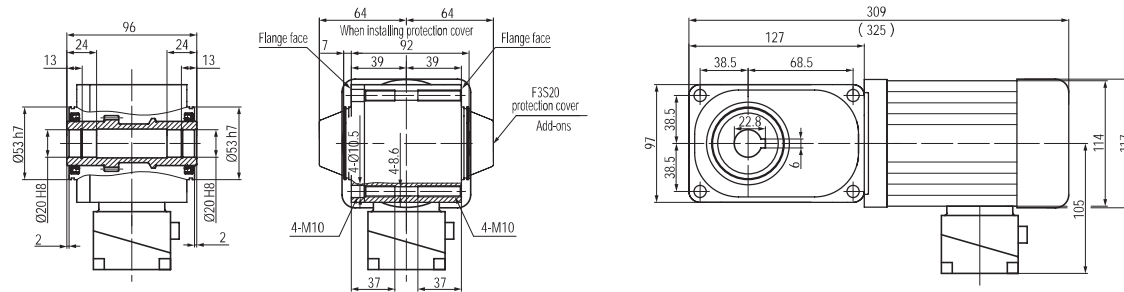
GF3 100W

GF3 Single-phase/Three-phase 100W GF3S [Concentric Hollow Shaft] / GF3F [Concentric Solid Shaft]

Outline Dimension

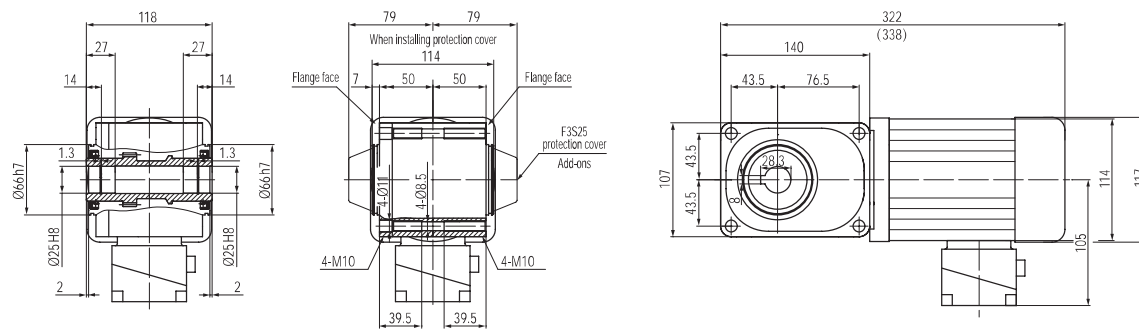
GF3S20N010-100-100

Figure GF3-1



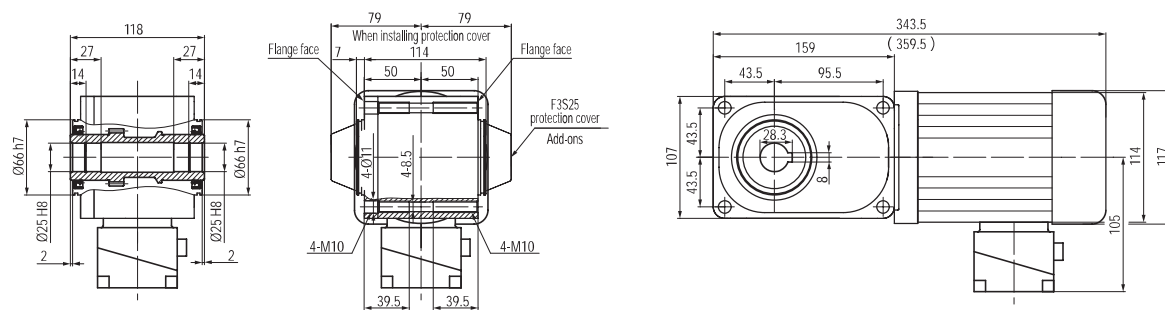
GF3S25N010-100-100

Figure GF3-2



GF3S25N120-200-100

Figure GF3-3



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GF3 100W

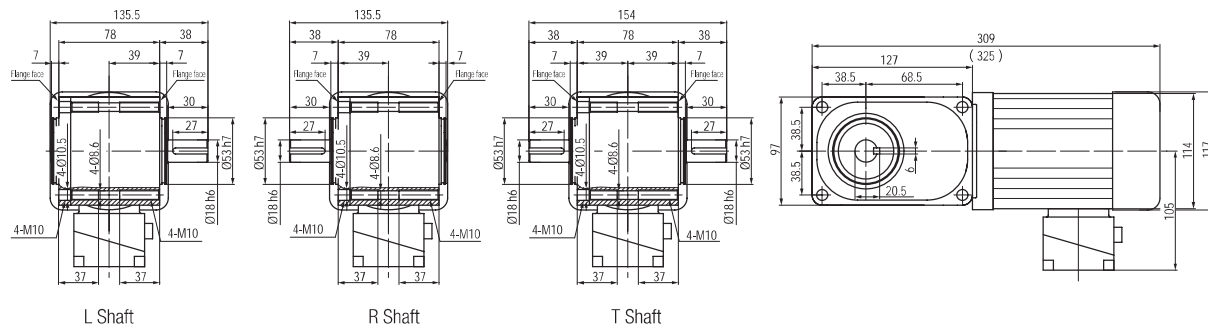
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Outline Dimension

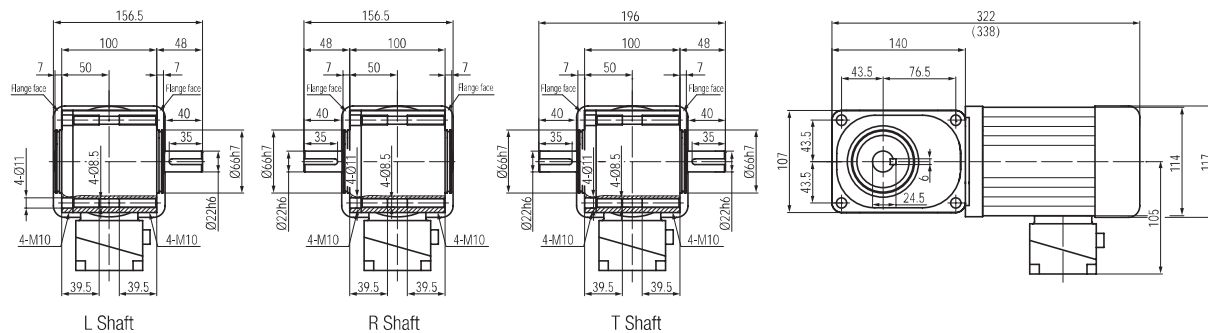
GF3F18^LR010-100-100

Figure GF3-4



GF3F22^LR010-100-100

Figure GF3-5



GF3F22^LR120-200-100

Figure GF3-6

